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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	3153	703/2.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/07 14:28

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L2	96	(film adj blow\$3) and transient	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/08 11:07
L4	1	ptt and (transient adj solution)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/08 11:24
L7	1	ptt and phan and transient and film	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/08 11:25



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Multiplicity, bifurcation, stability and hysteresis in dynamic solutions of film blowing process

DM Shin, JS Lee, HW Jung, JC Hyun - Journal of Rheology, 2007 - link.aip.org

... Hyun J.C., H.Kim, JSLee, HSSong, and HWJung, "Transient solutions of the dynamics in film blowing processes," J. Non-Newtonian Fluid Mech. ...

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Fiber spinning and film blowing instabilities

HW Jung, JC Hyun - Polymer Processing Instabilities: Control and Understanding, 2005 - books.google.com
Page 334. 1 1 Fiber Spinning and Film Blowing Instabilities Hyun Wook Jung

and Jae Chun Hyun Korea University, Seoul, South Korea ...

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SK Seoul - nt.ntnu.no

... 5. Hyun, JC, H. Kim, JS Lee, H.-S. Song, and HW Jung, "Transient solutions of the dynamics in film blowing processes," J. Non-Newtonian Fluid Mech., 121 ...

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A timestepper approach for the systematic bifurcation and stability analysis of polymer extrusion - [▶ arxiv.org](#) [PDF]

ME Kavousanakis, L Russo, CI Siettos, AG Boudouvis ... - Journal of Non-Newtonian Fluid Mechanics, 2008 - Elsevier

... 2. JC Hyun, H. Kim, S. Lee, H.-S. Song, HW Jung, **Transient solutions of the dynamics in film blowing processes**, J. Non-Newtonian Fluid Mech. ...

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The present invention concerns the dynamics and yielding of **transient solutions** for the **film-blowing** process. After solving the governing equations that ...
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Transient solutions of the dynamics in **film blowing** processes The utility of these **transient solutions** of **film blowing** process is rather far-reaching ...
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Transient solutions of the dynamics in **film blowing** have been obtained showing close agreement with the experimental results of polymers including LDPE. ...
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The nonlinear dynamics in **film blowing** process is simulated employing the governing equations of the system that include the flow-induced crystallization ...
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Transient solutions of dynamics in fiber spinning and film casting ...

transient solutions of the processes accompanied by flow-induced crystallization lies in, ... (e.g., fiber spinning, film casting and **film blowing**) has ...
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Nov 15, 2008 ... **"Transient Solutions of the Dynamics in Film Blowing Processes,"** ... and hysteresis in dynamic **solutions of film blowing** process. ...
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(2004) have successfully obtained for the first time the **transient solutions** of the dynamics using newly-devised mathematical/numerical schemes which employ ...
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... addressed this problem, ie, obtaining **transient solutions** when flow ... as film casting

[19] and **film blowing** [20] and ... role in shaping their **dynamics** of extensional ...

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[PDF] ► **Frequency response of film casting process**

JS Lee, HW Jung, JC Hyun - Korea-Australia Rheology Journal, 2003 - rheology.or.kr

... (2002). The nonlinear **dynamics** of film casting along with its

transient solutions was studied by Lee et al. (2001). ...

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Transient solutions of the dynamics of film casting process using a 2-D viscoelastic model

JM Kim, JS Lee, DM Shin, HW Jung, JC Hyun - Journal of Non-Newtonian Fluid Mechanics, 2005 - Elsevier

... still remains the need for **transient solutions** of viscoelastic ... In this study, the

nonlinear **dynamics** and stability of the 2-D **film casting process** ...

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Simulation of film blowing including flow-induced crystallization

AK Doufas, AJ McHugh - Journal of Rheology, 2001 - link.aip.org

... effect of crystallization on the **process dynamics** and rheological ... to multiple

steady-state **solutions** that avoid ... Ideally be determined from **transient** and steady ...

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Computer simulation of the film blowing process incorporating crystallization and viscoelasticity

IA Muslet, MR Kamal - Journal of Rheology, 2004 - link.aip.org

... Kanai, T., and J. White, "**Dynamics**, heat transfer, and ... for Polymer Melts and **Solutions**

(Butterworths, Boston ... and G. Field, "**Transient** elongational viscosity ...

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[PDF] ► **Sensitivity analysis of melt spinning process by frequency response**

HW Jung, JS Lee, JC Hyun - Korea-Australia Rheology Journal, 2002 - infosys.korea.ac.kr

... the amplitude and phase lag of **solutions** relative to ... that from the nonlinear dynamic

transient simulation, the ... and JC Hyun, 2000, Melt spinning **dynamics** of Phan ...

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spinning using ...

DM Shin, JS Lee, HW Jung, JC Hyun - Korea-Australia Rheology Journal, 2005 - cfel.korea.ac.kr

... spinning, **film** casting, and tubular **film blowing** have been ... salient example is the nonlinear **dynamics** and stability ... first time solved the **transient** responses of ...

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Modeling and experimental studies of wave evolution on free falling viscous films

LT Nguyen, V Balakotaiah - Physics of Fluids, 2000 - link.aip.org

... the asymptotic **solutions** by dropping the **transient** part ... wave coordinate is that the **solutions** usually diverge ... study these changes in the flow **dynamics**, we rely ...

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From molecular dynamics to coarse self-similar solutions: a simple example using equation-free ... - ► [arxiv.org](#) [PDF]

L Chen, PG Debenedetti, CW Gear, IG Kevrekidis - Journal of Non-Newtonian Fluid Mechanics, 2004 - Elsevier

... view of our illustrative example using molecular **dynamics** below, we ... (For clarity, the **solution** is shown ... rescaling, and one only sees the **transient** approach to ...

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 JC Hyun, H Kim, JS Lee, HS Song, HW Jung - *Journal of Non-Newtonian Fluid Mechanics*, 2004 - Elsevier

 ... The utility of these **transient solutions of film blowing** process is rather far-reaching in both analysis and synthesis of the system: first, it enables us to ...

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Multiplicities and instabilities in film blowing

 JJ Cain, MM Denn - *Polymer Engineering & Science*, 1988 - interscience.wiley.com

 ... equations in regions where **solutions** are attain ... most extensive available data on **film blowing** appear to ... oscillatory shear, and uniaxial **transient** elongation (15 ...

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Transient elongational viscosities and drawability of polymer melts

 HM Laun, H Schuch - *Journal of Rheology*, 1989 - link.aip.org

 ... **Transient** elongational viscosities of polyethylene melts ... minimum film thickness) in tubular **film blowing**. ... Homogeneous isotropic liquids; **solutions** and melts. ...

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 JS Lee, DM Shin, HW Jung, JC Hyun - *Journal of Non-Newtonian Fluid Mechanics*, 2005 - Elsevier

 ... We have thus addressed this problem, ie, obtaining **transient solutions** when flow ... processing operations such as film casting [19] and **film blowing** [20] and [21] ...

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Study of instabilities in film blowing

 A Ghaneh-Fard, PJ Carreau, PG Lafleur - *AIChE Journal*, 1996 - interscience.wiley.com

 ... 0.13 0.14 0.15 0.16 0.17 0.18 Flow Rate of Cooling Air, m3/s Figure 8. Multiple and nonexisting **solutions** in **film blowing** of LDPE at TUR = 10.8 and BUR = 4.0. ...

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 ... other extensional deformation processes as well like fiber spinning and **film blowing**. ... while for more detailed sensitivity analysis **transient solutions** of the ...

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Stability of isothermal spinning of viscoelastic fluids- ► [korea.ac.kr](#) [PDF]

 HW Jung, JC Hyun - *Korean Journal of Chemical Engineering*, 1999 - Springer

 ... fact that other polymer processing like film casting and **film blowing**, where extensional ... In other words, without having to obtain **transient solutions** of the ...

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book Polymer processing: principles and design

DG Baird, DI Collias - 1995 - Butterworth-Heinemann

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Simulation of **film blowing** including flow-induced crystallization

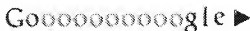
AK Doufas, AJ McHugh - Journal of Rheology, 2001 - link.aip.org

... ideally be determined from **transient** and **steady** ... the model and discussion of **solutions**,"

J. Fluid ... Petrie, CJS, "**Film blowing**, blow moulding and thermoforming ...

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